#### RAMIE GULTIVATION.

[ WRITTEN FOR THE P. C. AD-VERTISER.

made from the fibre.

States of America.

the Government to take a live interaid in introducing such a valuable sufficiently proved, to make its fibre of which will be given below. in great demand in other countries ready and increasing market.

ant enterprise are now removed, and of India the plant is only cultivated I hope the facts which I here present in small quantities by fishermen for will speak for themselves in a manner | the manufacture of their nets, lines, so forcible as to be productive of re- etc. The use of the fibre for cordage, results that will more than repay the is not likely to make its cultivation Government for any outlay it may an object in this country, but the see fit to make, and individually for | great strength which especially fits it an enterprise as promising in its out- rious camples tried against the best look as this which is before us.

EXTRACT FROM REPORT OF THE BRIT-ISH ASSOCIATION IN 1872-"RAMIE, A NEW TEXTILE PLANT. ITS USES.

This new textile lately introduced to the agriculturist of the Southern States of America, is a native of Java, and was first brought to Europe for investigation in 1844, when it received the botanical mane of "Bochmeria Atnacigsima," and from the beauty and strength of its fibre obtained much attention in manufacturing circles. Since that time every encouragement has been given to producers in the East Indies to induce them to cultivate it in sufficient quantities to supply the demand; the result is that a considerable quantity is annually received in Europe and manufactured into fabrics of the finest quality, excelling linen of the finest fexture in strength, beauty and finish, and rivaling silk in lustre. The author then described the advantages of the Ramie over Cotton and other staples now cultivated in the Southern States. He stated that the fibre, when prepared, for the spinner is beautifully white, soft and glossy, closely resembling a fine quality of gloss silk in appearance, that it is stronger than the best flax, and readily receives the most difficult dyes without injury to its strength or lustre."

EXTRACT FROM THE U. S. AGRICUL-TURAL REPORT OF 1855. "THE USES. BY GEO, C. SHAEFFER, M. D. U. S. PATENT OFFICE.

"By the praiseworthy exertions of Java.

servatory in Washington, there is mens is the color, which in the Java now offered an opportunity of ascer- plant is lighter with a tendency totaining how far the China Grass, wards green and with somewhat more "Boehmeria Nivea," can be success- of a gloss.

ernment was first called to the great known as as an article of commerce, ling, separated from each other. The value of Ramie fibre in India, in the but the plant furnishing the material filaments of the China grass on the year 1853, and from that time down to was only identified about the com- other hand, although they had been the present, they have been unremit- mencement of this century, by Dr. subjected to the process of bleaching ing in their endeavors to introduce it | Roxburgh, whose labors in bringing | showed no such loose ends, and after for use in the various manufactures of to notice the fibres of the East are on- long continued manipulation still retheir own country. They have encour- ly now beginning to show their effect | mained smooth, glossy and apparently aged the cultivation of Ramie, by in commerce. Another indefatigable single celled. To be certain upon this giving various rewards and prizes for laborer in the same field, Dr.J. Forbes point, specimens, after boiling in an the fibre, for machines for cleaning it Royle has recently published a work alkaline solution of a strength which in the best manner, and for cloth containing a complete summary of would insure the separation of the in-The United States have not been fibres. The "Boehmeria Nivea," for- back and forth between the fingers behindhand in the interest they have merly known as "Urtica Nivea," be- and then carefully examined from taken in the subject, they have done longs to the nettle family, every sub- and to and under the microscope. a great deal in the way of obtaining division of which abounds in fibrous | Every effort was made at all doubtful correct information concerning it, plants. Dr. Roxburgh described it points by needles, to obtain a separa-They have also distributed the Ramie ander the name of "Urtica Tenocissi- tion, if possible. As evidence of the seed in various portions, so that now na," from specimens obtained in Su-care bestowed upon the examination, there are a great number of patches matra, and subsequently he learned it may be stated that from one to two under cultivation in the semi-tropical that this was the plant yielding the hours were more than once expended Interest in this fibre-producing by the identity of the Chinese and In- The result of this close inspection was plant is daily increasing everywhere, dian plants has been determined be- the development of the fact that the and the cultivation of it is meeting | youd dispute. From its wide diffusion | sincle cells of the line of China grass with great success in Germany, Bel- throughout the East, this plant is are of an extraordinary length; often gium, France and Algiers, in Tunis, known under various names, such as equal to and sometimes far exceeding Portugal, Mexico, Havana, Brazil and "Cha," or "Tchou Ma," in China: that of the longest of which we have in the United States. It has also been "Caloee" in Sumatra; "Ramie" in any record. Five, six and even seven tested in the Australian Colonies. Malay; and "Rhea" in Assam, Grad- inches seem to be not unusual lengths. With such precedents as these, per- ually increasing in commercial im- In one case a filament of over ten haps it will not appear presumptuous | portance, this product only obtained | inches length was severely handled. to suggest that the Hawaiian Gov- the notice of the public generally at without showing any sings of being ernment, and Legislature now in ses- the London Exhibition of 1851, where composed of more than one cell; but in sion appoint a committee to exam- it was presented in every condition, this case the miscrope was not used. ine into the merits of the project of the from the crude article to the woven | Even the tow of the bleached fibre Hawaiian R. Co. and see if it would fabric, showing a fibre of such beauty not be a wise and judicious thing for and strength that three prize medals were awarded to different persons for est in the proposed undertaking and | specimens in the prepared state. Samples of these now in the collection of industry as this promises to be, for | the United States Patent Office, I have the great value of the plant has been | submitted to examinations the results

"Of the value of this fibre I can give where it cannot fail to always find a | no better evidence than the statement of Dr. Royle, as imported into Eng-The obstacles which have hitherto land it has sold for £60 to £80, and prevented the success of this import- even for £120 per ton. In some parts being thereby induced to engage in for this purpose, may be noticed. Va-Russian hemp, shows that it bears a I append some extracts from im- weight sometimes double, and always portant reports bearing on this sub- more than borne by the hemp. In China, and also where it is employed mainly for making the grass cloth, the softness and strength of which give it a character distinct from that of the fabric of any other fibre.

> year, at intervals of about two months. The most rapid growth is the second cutting vielding the finest fibre.

"The treatment of the crop varies much, but in general it closely resembles that of hemp, except that the fibres are peeled from the stalks by hand. They are next exposed to the manufacture of an excellent fabric. dew at night, and to the sun by day, avoiding rains. In other cases they | the crop should stand pretty close, and aré soaked in lime water, or even boiled in a slightly alkaline solution. Sometimes again, the fibre is spun or even weven, before it is bleached.

the material, after it has reached Europe, consists in steeping it in water at a temperature of 90 deg. F. for twenty-four hours, and then boiling it in an akaline solution, after which it is well washed in clean water and nearly dried by high pressure

It may be noticed that the fibre which grows wild has also been sent to Europe, but this, as might be ex- coolers, Centrifugais, Turbine Water-wheels, Ox pected, is much coarser than the cultivated product.

The specimens of the crude mate- to grind his own came, this affords an unusual oprial examined were those above named, obtained from the London exhibition of 1851, and others kindly presented by Joseph Balestier, late CHINA GRASS. ITS HISTORY AND Commissioner to Cochin-China, etc., which were also accompanied by the plant itself, obtained by him in

Mr. W. R. Smith of the Public Con- The chief-difference in the speci- myst-war

It seems particularly opportune at fully cultivated in the United States. The half bleached and full bleached the present time to call the attention | There seems to be no difficulty in mul- | line and tow, as received from Lonof the King and his advisors to this tiplying the plants, and none in ob- don were compared with the best matter, as it is known their desire taining them in the condition in specimens of English, French and that avenues of industry may be open- which they yield the fibre of com- Belgium flax from the same exhibied to Hawaiians, the poore of whom merce. This being the case it is pro-tion, which last, as usual were uncould easily cultivate their small "ku | per that some notice of the history of bleached. A very slight examination leanas" to pecuniary advantage to the plant and its products should be at once shows the remarkable differthemselves, while those of larger es- furnished for the information of those erence between the two materials. tates might reap corresponding bene- who may feel disposed to attempt its. The filaments of the flax line although very fine, showed the ends of compon-The attention of the English Gov- "China Grass cloth has long been ents cells, which on repeated handthe history of this and other Oriental dividual cells, were repeatedly passed famous "China Grass." More recent- upon the scrutiny of a single fibre. furnished in abundance, single cells, or fragments three inches or more in

"We are now prepared to understand the great strength of the China grass cordage, as in any given length it has fewer breaks of interrupted continuity than any other fibre. The character of the single cell is as follows: In diameter they exceed those of fine flax, of which, however, many are required to make a line of equal length. In cross sections they are irregular and the greatest diameter is found sometimes in one direction, and sometines in another, somewhat after the manner of cotton. This gives an advantage in spinning, furnishing a better hold of the fibres upon each other than in circular in section.

"It is said that specimens of the Oriental fabric have been examined in which the thread was untwisted, being made up of long filaments, joined end to end by some glue or cement. 5th -PRINCESS' CUP. We know that this is true of the celebrated "pigree,", or "piri," a fabric made from the pineapple fibre, and the facts above named show that it may also be true of the China grass. This untwisted thread gives a peculiar transparency to the fabric which cannot be imitated. No attempts have ever been made in Europe, nor in this country, to reproduce such an article which probably requires too much manual labor to be profitable. "Generally three crops are taken a The full bleached line above mentioned is remarkably glossy and soft, and in some respects not unlike silk in appearance. The whole character of the fabric is so distinct as to preclude any mistake as to the recognition of

"Although we have no mention of the employment of the tow, there can be no doubt of its applicability to the

"In order to have a long, fine fabric when in small patches it should be surrounded by other plants of similar hight, in forder to have the whole yield of the same quality, on the exterior plants may be used for propaga-The most successful treatment of tion, leaving only the tallest to be tried for their fibre.

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DAY!



Official Programme

-0F THE-

# RACES

TO BE HELD AT

# WEDNESDAY, JUNE 11th, 1884

Under the Auspices of the

## Hawaiian Jockey Club.

PRESIDENT, VICE PRESIDENT. F. S. Pratt. TREASURER. SECRETARY, Cecil Brown. C. O. Berger.

EXECUTIVE COMMITTEE. H. A. Widemann, C. H. Judd. Dr. J. S. McGrew.

#### 1st.-KING'S CUP.

HURDLE RACE; 2 miles; four hurdles; open for all; catch weights.

#### 2nd.—QUEEN'S PURSE.

TROTTING RACE; mile heats; best 2 in 3 to harness; free for all.

#### 3rd,-KAMEHAMEHA PLATE.

RUNNING RACE; mile heats, best 2 in 3; free for all; weight for age.

#### 4th.-QUEEN EMMA PLATE.

HALF MILE DASH: Hawaiian bred horses; eatch weights.

TROTTING RACE; mile dash to harness; free to all 2 year olds bred in the

#### 6th. - RECIPROCITY CUP.

RUNNING RACE; mile heats; best 2 in 3; free for imported horses only; weight

#### 7th.—CORONATION PURSE.

TROTTING RACE; mile dash to harness; free for all 3 year olds bred in the Kingdom.

#### 8th.-LEAHI CUP.

all; catch weights.

#### 9th.-LUNAMAKAAINANA Plate.

RUNNING RACE; mile dash; free for all horses bred in the Kingdom; weight

#### 10th.—KOHALA CLUB. CUP.

RUNNING RACE: mile heats: best 2 in 3: Hawaiian bred horses: weight for

#### 11th.—GRAZIERS' PLATE

RUNNING RACE; half mile dash; free for all 2 year olds; catch weights.

#### 12th.-AMATEUR CUP.

TROTTING RACE; mile dash; owners to drive.

PURSE.

### 13th.—HAWAIIAN JOCKEY CLUB

RUNNING RACE; mile dash: free for all 3 year olds bred in the Kingdom.

#### 14th.—PONY RACE CUP.

MILE DASH; open to all ponies bred in the Kingdom, not over 14 hands high; catch weights.

#### 15th.-KAHUKU CUP.

MILE DASH; free for all 3 year olds born in the Kingdom.

#### 16th KAIULANI PLATE.

RUNNING RACE; mile dash; open to all herses bred in the Kingdom that have never run at Kapiolani Park.

#### 17th. EXPRESS CUP.

TROTTING RACE; mile dash; free for all express horses.

### FOOT RACE, 200 yards.

All Races to be under the rules of the Hawaiian Jockey Club.

Copies of the Rules and Regulations of the Club can be had by owners of horses upon application to the Secretary. Price 25 cents.

Purses will be published as soon as decided upon.

C. O. BERGER.

Secretary.

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TIME TABLE.

#### Steamer Planter.

Will run regularly for Kona and Kain LEAVES HONOLILU AT 4 P. M.

- 25 Tuesday.....June 17 May 6 Friday ...... June 27 Returning, Touching at Maalaea 

Tuesday......June 6

April 22 Friday ...... June 13 May 2 Tuesday...... June 24 May 13 Friday....... July 4 ARRIVING AT HONOLULE AT 5 P. M. On the out trip, will touch only at the following ports in Kona, Kailua, Kennhon, Hookena, and

## Steamer Iwalani,

Leaves Honolulu Every Tuesday, at 5 P. M..

For Nawiliwili, Koloa, Waimea and Eleele, Kaual, Returning, leaves Nawiliwill every Saturday

#### Steamer Jas. Makee.

Leaves Honolulu Every Thursday at

3 P. M. For Kapaa and Kilanes. Returning leaves Kaual every Tuesday at 4 P. M. and touching at Waianac

# Steamer C. R. Bishop

both ways.

Leaves Honolulu Every Tuesday at

4 P. M. For Kukulhaele, Honokaa and Pannhau. Retura

ing arrives at Horolulu every Saturday morning